IN THE CLAIMS:

- 1. (Currently Amended) A motor assembly comprising:
 - a DC motor including:
 - a motor housing defining a stator,
- a rotor assembly supported for rotational movement with respect to the stator, and
 - a shaft coupled to the rotor assembly for rotation about an axis of rotation, a supporting structure carrying the motor;

decoupling structure mounting the motor housing to the supporting structure in a manner to provide a <u>certain predetermined</u> natural frequency of the motor in torsion around the axis of rotation of the shaft while providing natural frequencies higher than the <u>certain predetermined</u> natural frequency for <u>degrees of freedom</u> of the motor other than torsion, and

pivot structure, associated with the supporting structure and the motor, defining a pivot permitting pivoting of between the motor and with respect to the supporting structure, with a center of the pivot being aligned with the axis of rotation.

- 2. (Original) The motor assembly of claim 1, wherein decoupling structure comprises a plurality of torsion springs, each spring having one end coupled to the motor housing at a first end of the motor with another end of the spring being coupled to the supporting structure.
- 3. (Original) The motor assembly of claim 2, wherein three torsional springs are provided generally 120 degrees apart.
- 4. (Original) The motor assembly of claim 2, wherein the pivot structure includes:
 - a recess provided in an end of the motor opposite the first end thereof, and
- a projection extending from the supporting structure and being received in the recess, with the torsion spring maintaining the projection in the recess.

- 5. (Original) The motor assembly of claim 4, wherein the projection is formed as a pin having a rounded end and the recess is defined by a concave surface.
- 6. (Currently Amended) The motor assembly of claim 2_4, wherein the projection is formed as toroid and the recess is a generally circular groove.
- 7. (Original) The motor assembly of claim 1, wherein rotor assembly includes an armature and the stator includes permanent magnets.
- 8. (Original) The motor assembly of claim 1, further including a switch for controlling speed of the motor.
- 9. (Original) The motor assembly of claim 8, wherein the switch is constructed and arranged to be controlled by a pulse width modulated signal.
- 10. (Currently Amended) A motor assembly comprising:
 - a DC motor including:
 - a motor housing defining a stator,
- a rotor assembly supported for rotational movement with respect to the stator, and
 - a shaft coupled to the rotor assembly for rotation about an axis of rotation, a supporting structure carrying the motor;

means for coupling the motor housing to the supporting structure in a manner to provide a <u>certain predetermined</u> natural frequency of the motor in torsion around the axis of rotation of the shaft while providing natural frequencies higher than the <u>certain predetermined</u> natural frequency for <u>degrees of freedom</u> of the motor other than torsion, and

means, associated with the supporting structure and the motor, for permitting pivoting of between the motor and with respect to the supporting structure.

- 11. (Original) The motor assembly of claim 10, wherein the means for coupling comprises a plurality of torsion springs, each spring having one end coupled to the motor housing at a first end of the motor with another end of the spring being coupled to the supporting structure.
- 12. (Original) The motor assembly of claim 11, wherein three torsional springs are provided generally 120 degrees apart.
- 13. (Original) The motor assembly of claim 11, wherein the means for permitting pivoting includes:
 - a recess provided in an end of the motor opposite the first end thereof, and
- a projection extending from the supporting structure and being received in the recess, with the torsion springs maintaining the projection in the recess, the recess and projection defining a pivot with a center of the pivot being aligned with the axis of rotation.
- 14. (Original) The motor assembly of claim 13, wherein the projection is formed as a pin having a rounded end and the recess is defined by a concave surface.
- 15. (Original) The motor assembly of claim 13, wherein the projection is formed as toroid and the recess is a generally circular groove.
- 16. (Original) The motor assembly of claim 10, wherein rotor assembly includes an armature and the stator includes permanent magnets.
- 17. (Original) The motor assembly of claim 10, further including a switch for controlling speed of the motor.
- 18. (Original) The motor assembly of claim 17, wherein the switch is constructed and arranged to be controlled by a pulse width modulated signal.

19. (Currently Amended) A method of controlling vibration of a motor assembly, the motor assembly includes a DC motor having a motor housing defining a stator; a rotor assembly supported for rotational movement with respect to the stator, and a shaft coupled to the rotor assembly for rotation about an axis of rotation, the method including:

coupling the motor housing to a supporting structure, carrying the motor, via springs so as to provide a <u>certain predetermined</u> natural frequency of the motor in torsion around the axis of rotation of the shaft while providing natural frequencies higher than the <u>certain predetermined</u> natural frequency for <u>degrees of freedom</u> of the motor other than torsion, and

providing a pivot between the motor and the supporting structure so that the motor can pivot with respect to the supporting structure, wherein a center of the pivot is aligned with the axis of rotation.

20. (Original) The method of claim 19, wherein the step of providing a pivot includes providing a projection extending from the supporting structure that is received in a recess defined in an end of the motor, the springs maintaining the projection in the recess.